

East 7/19/04

L Number	Hits	Search Text	DB	Time stamp
1	18	balanc\$ with (cutting or remov\$4 near4 metal or machining or metalworking or mill\$4 or remov\$ near4 material) with brak\$ adj drum	USPAT; US-PGPUB	2004/07/19 07:00
2	73	balanc\$ with groove and 74/573r,574.ccls.	USPAT; US-PGPUB	2004/07/19 07:08
5	3	(balancing or balance) with groove and 188/218a,250e,261.ccls.	USPAT; US-PGPUB	2004/07/19 07:09
4	3	(balancing or balance) with groove and 188/218a,250e,261.ccls.	USOCR	2004/07/19 07:13
3	47	(balancing or balance) with groove and 74/573r,574.ccls.	USOCR	2004/07/19 07:10
6	35	(balancing or balance) with groove and 188/\$.ccls.	USOCR	2004/07/19 07:13
9	0	brak\$4 adj drum same squeal\$4 adj band same grooves	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 07:15
10	0	brak\$4 adj drum same squeal\$4 adj band same grooves	USOCR	2004/07/19 07:15
11	205	brak\$4 adj drum same grooves	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 07:26
12	22	brak\$4 adj drum same grooves same (outer adj (surface or periphery))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 07:16
13	3	brak\$4 adj drum same grooves same (outer adj (surface or periphery)) same grooves with (shape or depth or taper\$ or constant)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 07:17
16	31	brak\$4 adj drum same grooves and grooves with (shape or width or depth)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 07:22
17	527	brak\$4 adj drum same groove	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 07:26
18	274	brak\$4 adj drum with groove	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 07:32
19	769	F16D065/10.ipc.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 07:33
20	11	F16D065/10.ipc. and (groove or grooves) with (noise or squeak4 or noise or vibration or balanc\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 07:33
21	11	F16D065/10.ipc. and (groove or grooves) with (noise or squeak\$4 or noise or vibration or balanc\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 07:35
22	6	brak\$4 near2 drum same (groove or grooves) same (noise or squeak\$4 or noise or vibration or balanc\$4)	JPO	2004/07/19 07:36
-	5	("4986149" "5483855" "5586625" "5992581" "6321886").PN.	USPAT; US-PGPUB	2004/07/18 14:09
-	9	("3817149" "4986149" "5352305" "5483855" "5538111" "5586625" "5664648" "5782324" "5992581").PN.	USPAT	2004/07/18 14:06

-	0	6321886.URPN.	USPAT	2004/07/18 14:07
-	7	("4986149" "5352305" "5483855" "5538111" "5586625" "5664648" "5782324").PN.	USPAT	2004/07/18 14:07
-	3	5992581.URPN.	USPAT	2004/07/18 14:07
-	7	5586625.URPN.	USPAT	2004/07/18 14:07
-	2	("4986149" "5483855").PN.	USPAT	2004/07/18 14:07
-	2	("3817149" "4986149").PN.	USPAT	2004/07/18 14:07
-	4	5483855.URPN.	USPAT	2004/07/18 14:07
-	4	("2693695" "2731887" "2792725" "3076363").PN.	USPAT	2004/07/18 14:08
-	10	4986149.URPN.	USPAT	2004/07/18 14:08
-	23	((("4986149" "5483855" "5586625" "5992581" "6321886").PN.) (("3817149" "4986149" "5352305" "5483855" "5538111" "5586625" "5664648" "5782324" "5992581").PN.) 6321886.URPN. (("4986149" "5352305" "5483855" "5538111" "5586625" "5664648" "5782324").PN.) 5992581.URPN. 5586625.URPN. (("4986149" "5483855").PN.) (("3817149" "4986149").PN.) 5483855.URPN. (("2693695" "2731887" "2792725" "3076363").PN.) 4986149.URPN.	USPAT; US-PGPUB	2004/07/18 14:10
-	5	(US-6321886-\$ or US-5992581-\$ or US-5586625-\$ or US-5483855-\$ or US-4986149-\$).did.	USPAT	2004/07/18 14:13
-	12	balanc\$ with (mill\$4 or remov\$ near4 material) with brak\$ adj drum	USPAT; US-PGPUB	2004/07/19 05:24
-	0	6601284.URPN.	USPAT	2004/07/18 14:22
-	24	("1686346" "1746494" "1876354" "2086488" "2493173" "3005259" "3205688" "3354535" "3355920" "3670383" "3991598" "4067098" "4262407" "4554810" "4563887" "4781047" "4958430" "5285874" "5345672" "5385216" "5586625" "5596897" "5782324" "6148498").PN.	USPAT	2004/07/19 05:46
-	19	(US-6601284-\$ or US-6148498-\$ or US-5782324-\$ or US-5345672-\$ or US-5285874-\$ or US-3205688-\$ or US-3005259-\$ or US-2493173-\$ or US-2086488-\$ or US-1876354-\$ or US-1746494-\$ or US-6532848-\$ or US-6279699-\$ or US-6206150-\$ or US-5992581-\$ or US-5823304-\$ or US-5586625-\$ or US-5483855-\$).did. or (US-20010015307-\$).did.	USPAT; US-PGPUB	2004/07/18 14:30
-	6	squealer adj band with thickness	USPAT; US-PGPUB	2004/07/18 14:31
-	1	6601284.pn.	USPAT; US-PGPUB	2004/07/18 15:12
-	2	((("4986149") or ("5483855")).PN.	USPAT; US-PGPUB	2004/07/18 15:13

-	149	("5823304" "6196363" "5320201" "5538111" "4986149" "5483855" "5586625" "5782324" "5992581" "6279699" "6321886" "6532848" "5390769" "5538113" "5273138" "5383537" "5383538" "5383539" "6601284" "6666309" "6206150" "5183385" "5417377" "6513630" "5474158" "5016523" "5529151" "5570767" "6648050" "5827108" "5916347" "5934126" "5875687" "6206638" "4893987" "5348446" "5688107" "5735044" "5822852" "5847350" "5846057" "6126396" "6179556" "6602052" "5345672" "5390943" "4627519" "4776238" "4581803" "4602706").pn. ("4765382" "4924039" "5328008" "5346040" "5381677" "5499700" "5551261" "5680919" "6068093" "6241056" "6283192" "4589177" "4390320" "4540339" "5192192" "5564902" "5660523" "5997251" "6196363" "4416107" "4277936" "4310972"	USPAT; US-PGPUB	2004/07/18 15:18
Search History 7/19/04 7:37:05 AM Page 3 C:\APPS\least\workspaces\10091368.wsp				

-	100	("5823304" "6196363" "5320201" "5538111" "4986149" "5483855" "5586625" "5782324" "5992581" "6279699" "6321886" "6532848" "5390769" "5538113" "5273138" "5383537" "5383538" "5383539" "6601284" "6666309" "6206150" "5183385" "5417377" "6513630" "5474158" "5016523" "5529151" "5570767" "6648050" "5827108" "5916347" "5934126" "5875687" "6206638" "4893987" "5348446" "5688107" "5735044" "5822852" "5847350" "5846057" "6126396" "6179556" "6602052" "5345672" "5390943" "4627519" "4776238" "4581803" "4602706").pn. ("4765382" "4924039" "5328008" "5346040" "5381677" "5499700" "5551261" "5680919" "6068093" "6241056" "6283192" "4589177" "4390320" "4540339" "5192192" "5564902" "5660523" "5997251" "6196363" "4416107" "4277936" "4310972"	USPAT; US-PGPUB	2004/07/18 15:18
Search History 7/19/04 7:37:05 AM Page 4		C:\APPS\east\workspaces\100970320.wsp		

-	12	("5823304" "6196363" "5320201" "5538111" "4986149" "5483855" "5586625" "5782324" "5992581" "6279699" "6321886" "6532848" "5390769" "5538113" "5273138" "5383537" "5383538" "5383539" "6601284" "6666309" "6206150" "5183385" "5417377" "6513630" "5474158" "5016523" "5529151" "5570767" "6648050" "5827108" "5916347" "5934126" "5875687" "6206638" "4893987" "5348446" "5688107" "5735044" "5822852" "5847350" "5846057" "6126396" "6179556" "6602052" "5345672" "5390943" "4627519" "4776238" "4581803" "4602706").pn. ("4765382" "4924039" "5328008" "5346040" "5381677" "5499700" "5551261" "5680919" "6068093" "6241056" "6283192" "4589177" "4390320" "4540339" "5192192" "5564902" "5660523" "5997251" "4116107" "4277936" "4310972"	USPAT; US-PGPUB	2004/07/18 15:21
Search History 7/19/04 7:37:05 AM Page 5 C:\APPS\east\workspaces\100970360.wsp				

-	418	amsted.asn.	USPAT; US-PGPUB	2004/07/18 15:22
-	2	amsted.asn. and brak\$4 near2 drum	USPAT; US-PGPUB	2004/07/18 15:23
-	159	(Brotherton.in.or Todd Griffin.in.) and brak\$4 near2 drum	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/18 15:24
-	3	amsted.asn. and brak\$4 near2 drum	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/18 15:23
-	8	(Brotherton.in.or Todd Griffin.in.) and brak\$4 near2 drum with squealer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/18 15:25
-	9	brak\$4 near2 drum with squealer near4 remov\$4 with balanc\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/18 15:25
-	18	balanc\$ with (remov\$4 near4 metal or machining or metalworking or mill\$4 or remov\$ near4 material) with brak\$ adj drum	USPAT; US-PGPUB	2004/07/19 06:59
-	3483	(width or depth) with (vary or variable or tapered or nonconstant) with groove	USPAT; US-PGPUB	2004/07/19 05:49
-	0	(width or depth) with (vary or variable or tapered or nonconstant) with groove with (brake adj drum or braking adj drum)	USPAT; US-PGPUB	2004/07/19 05:42
-	0	(width or depth) with (vary or variable or tapered or nonconstant) with groove with (brake adj drum or braking adj drum)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/19 05:43
-	1	(width or depth) with (vary or variable or tapered or nonconstant) with groove same (brake adj drum or braking adj drum)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/19 05:43
-	1	(width or depth) with (vary or variable or tapered or nonconstant) with groove same (brake adj drum or braking adj drum)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/19 05:43
-	16	(width or depth) near7 groove same (vary or variable or tapered or nonconstant) same (brake adj drum or braking adj drum)	USOCR	2004/07/19 05:45
-	2	(width or depth) near7 groove same (vary or variable or tapered or nonconstant) same squeal\$	USOCR	2004/07/19 05:45
-	0	(width or depth) near7 groove same (vary or variable or tapered or nonconstant) same squeal\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/19 05:46
-	8374	(width or depth) near7 groove same (vary or variable or tapered or nonconstant)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/19 05:46
-	0	("1686346" "1746494" "1876354" "2086488" "2493173" "3005259" "3205688" "3354535" "3355920" "3670383" "3991598" "4067098" "4262407" "4554810" "4563887" "4781047" "4958430" "5285874" "5345672" "5385216" "5586625" "5596897" "5782324" "6148498").PN. and ((width or depth) near7 groove same (vary or variable or tapered or nonconstant))	USPAT	2004/07/19 05:47
-	24	("1686346" "1746494" "1876354" "2086488" "2493173" "3005259" "3205688" "3354535" "3355920" "3670383" "3991598" "4067098" "4262407" "4554810" "4563887" "4781047" "4958430" "5285874" "5345672" "5385216" "5586625" "5596897" "5782324" "6148498").PN.	USPAT	2004/07/19 05:47
-	834	"24" and squeal\$4	USPAT; US-PGPUB	2004/07/19 05:47
-	1089	"12" and squeal\$4	USPAT; US-PGPUB	2004/07/19 05:47

-	24	("1686346" "1746494" "1876354" "2086488" "2493173" "3005259" "3205688" "3354535" "3355920" "3670383" "3991598" "4067098" "4262407" "4554810" "4563887" "4781047" "4958430" "5285874" "5345672" "5385216" "5586625" "5596897" "5782324" "6148498").PN.	USPAT	2004/07/19 05:48
-	3	((("1686346" "1746494" "1876354" "2086488" "2493173" "3005259" "3205688" "3354535" "3355920" "3670383" "3991598" "4067098" "4262407" "4554810" "4563887" "4781047" "4958430" "5285874" "5345672" "5385216" "5586625" "5596897" "5782324" "6148498").PN.) and squeal\$4	USPAT; US-PGPUB	2004/07/19 05:48
-	29	squeal\$4 adj (ring or band) with brak\$4 near2 drum	USPAT;	2004/07/19 05:49
-	4400	(width or depth) with (vary or variable or tapered or nonconstant) with groove	US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 05:53
-	5714	(width or depth) with (vary or variable or tapered or nonconstant) with groove	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 05:53
-	0	((width or depth) with (vary or variable or tapered or nonconstant) with groove) and (squeal\$4 adj (ring or band) with brak\$4 near2 drum)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 05:49
-	42	squeal\$4 adj (ring or band) with brak\$4 near2 drum	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 05:50
-	42	(width or depth) with (vary or variable or tapered or nonconstant) with groove and 409/\$.cccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 05:54
-	18	(width or depth) with (vary or variable or tapered or nonconstant) with groove with balanc\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 05:55
-	4	groove with balanc\$4 with brak\$4 adj drum	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 05:57
-	0	groove with balanc\$4 with brak\$4 adj drum same obvious with design with groove	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 05:58
-	0	groove with balanc\$4 with brak\$4 adj drum same tapered with groove	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 05:58
-	0	groove with balanc\$4 with brak\$4 adj drum same adjustable with groove	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 05:58
-	0	groove with balanc\$4 with brak\$4 adj drum same (shape or depth) with groove	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 05:59

-	23	groove with brak\$4 adj drum same (shape or depth) with groove	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 06:05
-	1	1998-154805.NRAN.	DERWENT	2004/07/19 06:01
-	2	(US-6253883-\$).did. or (US-20040026189-\$).did.	USPAT; US-PGPUB	2004/07/19 06:02
-	36	groove same brak\$4 adj drum same (shape or depth) with groove	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 06:03
-	36	(groove same brak\$4 adj drum same (shape or depth) with groove) not ((width or depth) with (vary or variable or tapered or nonconstant) with groove with balanc\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 06:03
-	274	groove with brak\$4 adj drum	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 06:05
-	21	groove with brak\$4 adj drum and balanc\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 06:07
-	0	6532848.URPN.	USPAT	2004/07/19 06:05
-	9	("4067098" "4428697" "4836755" "4926341" "5483855" "5586625" "5782324" "6112398" "6196363").PN.	USPAT	2004/07/19 06:05
-	274	groove with brak\$4 adj drum	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 06:07
-	2	groove with brak\$4 adj drum same squeal\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 06:08
-	46	brak\$4 adj drum same squeal\$4 adj band	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/19 07:15

PLUS 7/19/04

Butler, Douglas

From: PLUS
Sent: Tuesday, July 13, 2004 2:45 PM
To: Butler, Douglas
Subject: PLUS Results for 10697328

Here are the PLUS search results for 10697328.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10697328_QUAL.txt



10697328_LIST.txt



10697328_WEST.txt



10697328_EAST.txt



10697328.east



10697328_CLS.txt



10697328_CLSTITLES.txt



10697328_WDS.txt

xt

PLUS Search Results for S/N 10697328, Searched July 13, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5823304	4765382	4391304
6196363	4924039	4409779
5320201	5328008	4434971
5538111	5346040	4438904
4986149	5381677	4456100
5483855	5499700	4460072
5586625	5551261	4466512
5782324	5680919	RE31673
5992581	6068093	4493400
6279699	6241056	4536936
6321886	6283192	4560040
6532848	4589177	4561328
5390769	4390320	4577734
5538113	4540339	4587790
5273138	5192192	4591027
5383537	5564902	4604914
5383538	5660523	4627521
5383539	5997251	4757880
6601284	6196792	4770411
6666309	4416107	4775114
6206150	4277936	4787483
5183385	4310972	4793064
5417377	4360999	4804426
6513630	4553326	4815679
5474158	4586588	4821867
5016523	4840076	4854521
5529151	5011561	4860860
5570767	5636805	4865229
6648050	5868332	4891959
5827108	5964323	5012905
5916347	6053834	5025331
5934126	6058982	5238091
5875687	6058982	5263557
6206638	3651899	5305162
4893987	3869785	5333807
5348446	3858691	5346039
5688107	3841447	5347702
5735044	3828895	5370590
5822852	3785042	5376137
5847350	4035994	5381876
5846057	4246781	5398882
6126396	4267910	5467849
6179556	4275609	5501304
6602052	4297829	5503255
5345672	4307558	5609229
5390943	4311221	5625509
4627519	4328617	5687611
4776238	4334670	5709348
4581803	4359144	5735369

10697328_LIST

4602706 4363385 5749416

10697328_EAST

(5823304
6196363
5320201
5538111
4986149
5483855
5586625
5782324
5992581
6279699
6321886
6532848
5390769
5538113
5273138
5383537
5383538
5383539
6601284
6666309
6206150
5183385
5417377
6513630
5474158
5016523
5529151
5570767
6648050
5827108
5916347
5934126
5875687
6206638
4893987
5348446
5688107
5735044
5822852
5847350
5846057
6126396
6179556
6602052
5345672
5390943
4627519
4776238
4581803
4602706) .pn.
(4765382
4924039
5328008
5346040
5381677
5499700
5551261
5680919
6068093

10697328_EAST

6241056
6283192
4589177
4390320
4540339
5192192
5564902
5660523
5997251
6196792
4416107
4277936
4310972
4360999
4553326
4586588
4840076
5011561
5636805
5868332
5964323
6053834
6058982
6058982
3651899
3869785
3858691
3841447
3828895
3785042
4035994
4246781
4267910
4275609
4297829
4307558
4311221
4328617
4334670
4359144
4363385) .pn.
(4391304
4409779
4434971
4438904
4456100
4460072
4466512
RE31673
4493400
4536936
4560040
4561328
4577734
4587790
4591027
4604914
4627521
4757880

10697328__EAST

4770411
4775114
4787483
4793064
4804426
4815679
4821867
4854521
4860860
4865229
4891959
5012905
5025331
5238091
5263557
5305162
5333807
5346039
5347702
5370590
5376137
5381876
5398882
5467849
5501304
5503255
5609229
5625509
5687611
5709348
5735369
5749416) .pn.

10697328_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10697328 on July 13, 2004

Original Classifications

15 188/218R
12 188/77R
12 188/77W
10 416/97R
6 56/11.3
3 30/382
3 82/1.11
3 188/250H
3 188/259
2 29/889.1
2 68/23.7
2 92/63
2 139/452
2 160/170
2 188/78
2 192/17R
2 242/334.6
2 242/336
2 360/85
2 416/241R
2 416/92
2 623/44

Cross-Reference Classifications

13 188/259
13 188/77R
9 192/107T
7 188/166
7 188/249
7 415/115
5 188/77W
5 188/78
5 192/17R
5 192/80
4 30/381
4 82/903
4 188/218R
4 188/264R
4 416/97R
3 29/889.72
3 192/70.2
3 254/379
3 360/94
3 360/95
3 415/173.1
2 29/416
2 29/527.5
2 56/11.6
2 82/112
2 188/171
2 188/250H
2 188/264A
2 188/2D
2 188/74

10697328_CLS

2 192/113.34
2 192/224.1
2 226/195
2 242/334.6
2 242/365.4
2 242/559.3
2 254/378
2 256/1
2 256/2
2 301/6.91
2 360/85
2 409/123
2 415/173.4
2 416/224
2 416/228
2 416/92

Combined Classifications

25 188/77R
19 188/218R
17 188/77W
16 188/259
14 416/97R
9 192/107T
8 188/249
8 415/115
7 56/11.3
7 188/166
7 188/78
7 192/17R
5 30/381
5 188/250H
5 188/264R
5 192/80
4 82/1.11
4 82/903
4 242/334.6
4 360/85
4 360/94
4 416/92
3 29/889.1
3 29/889.72
3 30/382
3 188/171
3 188/264A
3 192/70.2
3 242/336
3 254/379
3 360/95
3 415/173.1
2 29/401.1
2 29/416
2 29/418
2 29/527.5
2 56/11.6
2 68/23.7
2 74/411.5
2 82/112
2 92/63

10697328_CLS

2 139/452
2 160/170
2 188/2D
2 188/329
2 188/74
2 192/113.34
2 192/224.1
2 192/70.12
2 226/195
2 242/365.4
2 242/559.3
2 254/378
2 256/1
2 256/2
2 301/6.91
2 409/123
2 415/173.4
2 416/224
2 416/228
2 416/241R
2 623/44

10697328_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10697328 on July 13, 2004

25 188/77R (12 OR, 13 XR)
Class 188 : BRAKES
188/67 ROD
188/74 .Transversely movable
188/77R ..Strap

19 188/218R (15 OR, 4 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/218R .Brake wheels

17 188/77W (12 OR, 5 XR)
Class 188 : BRAKES
188/67 ROD
188/74 .Transversely movable
188/77R ..Strap
188/77W ...Wrap band type

16 188/259 (3 OR, 13 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/250R .Shoes
188/251R ..Composite
188/259 ...Flexible

14 416/97R (10 OR, 4 XR)
Class 416 : FLUID REACTION SURFACES
416/95 WITH HEATING, COOLING OR THERMAL INSULATION
MEANS
416/96R .Changing state mass within or fluid flow
through working member or carrier
416/97R ..Flow exhausted to working fluid

9 192/107T (0 OR, 9 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/107R .Engaging surfaces
192/107T ..Transversely engaging

8 188/249 (1 OR, 7 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/234 .Shoe fasteners
188/249 ..Flexible shoes

8 415/115 (1 OR, 7 XR)
Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
415/115 WITH PASSAGE IN BLADE, VANE, SHAFT OR ROTARY
DISTRIBUTOR COMMUNICATING WITH WORKING FLUID

7 56/11.3 (6 OR, 1 XR)
Class 056 : HARVESTERS
56/10.1 MOTORIZED HARVESTER
56/10.8 .With selective control of drive means
56/11.3 ..By brake and disengageable drive (e.g.,

10697328_CLSTITLES
clutch)

7 188/166 (0 OR, 7 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/166 .Spring

7 188/78 (2 OR, 5 XR)
Class 188 : BRAKES
188/67 ROD
188/74 .Transversely movable
188/78 ..Expanding

7 192/17R (2 OR, 5 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/12R CLUTCH AND BRAKE
192/17R .Peripheral brake

5 30/381 (1 OR, 4 XR)
Class 030 : CUTLERY
30/165 CUTTING TOOLS
30/166.3 .Saw
30/381 ..Chain

5 188/250H (3 OR, 2 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/250R .Shoes
188/250H ..One-piece

5 188/264R (1 OR, 4 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/264R .Cooling and lubricating

5 192/80 (0 OR, 5 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/66.1 .Axially engaging
192/79 ..Exterior
192/80 ...Strap

4 82/1.11 (3 OR, 1 XR)
Class 082 : TURNING
82/1.11 PROCESS OF TURNING

4 82/903 (0 OR, 4 XR)
Class 082 : TURNING
82/903 BALANCING AND CENTERING

4 242/334.6 (2 OR, 2 XR)
Class 242 : WINDING, TENSIONING, OR GUIDING
242/324 UNWINDING AND REWINDING A MACHINE CONVERTIBLE
INFORMATION CARRIER (E.G., MAGNETIC TAPE OR PHOTOGRAPHI
C
FILM)
242/334 .Carrier speed or tension control
242/334.6 ..Carrier tension responsive signal

10697328_CLSTITLES

- 4 360/85 (2 OR, 2 XR)
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR RETRIEVAL
 360/81 RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING
 360/83 .Tape record
 360/84 ..Rotating head
 360/85 ...Tape in container
- 4 360/94 (1 OR, 3 XR)
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR RETRIEVAL
 360/88 RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING
 360/90 .Tape record
 360/93 ..Tape in container
 360/94 ...Transport accommodates different types
- 4 416/92 (2 OR, 2 XR)
 Class 416 : FLUID REACTION SURFACES
 416/90R WITH FLUID PASSAGE IN WORKING MEMBER COMMUNICATING WITH WORKING FLUID
 416/92 .Discharge solely at periphery normal to rotation axis
- 3 29/889.1 (2 OR, 1 XR)
 Class 029 : METAL WORKING
 29/592 METHOD OF MECHANICAL MANUFACTURE
 29/889 .Impeller making
 29/889.1 ..Repairing or disassembling
- 3 29/889.72 (0 OR, 3 XR)
 Class 029 : METAL WORKING
 29/592 METHOD OF MECHANICAL MANUFACTURE
 29/889 .Impeller making
 29/889.7 ..Blade making
 29/889.72 ...Hollow blade
- 3 30/382 (3 OR, 0 XR)
 Class 030 : CUTLERY
 30/165 CUTTING TOOLS
 30/166.3 .Saw
 30/381 ..Chain
 30/382 ...With guard means
- 3 188/171 (1 OR, 2 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/166 .Spring
 188/171 ..Electric release
- 3 188/264A (1 OR, 2 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/264R .Cooling and lubricating
 188/264A ..Air-cooled, axially engaging
- 3 192/70.2 (0 OR, 3 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL

10697328_CLSTITLES

192/30R CLUTCHES
 192/66.1 .Axially engaging
 192/70.11 ..Interposed, mating clutch-elements
 192/70.16 ...With torque connection between
 clutch-element and its shaft
 192/70.19Axially slidable connection
 192/70.2Spline connection for multiple
 clutch-elements

3 242/336 (2 OR, 1 XR)
 Class 242 : WINDING, TENSIONING, OR GUIDING
 242/324 UNWINDING AND REWINDING A MACHINE CONVERTIBLE
 INFORMATION CARRIER (E.G., MAGNETIC TAPE OR PHOTOGRAPHI

C

 FILM)
 242/335 .Cartridge system (i.e., cartridge work station
 or cartridge)
 242/336 ..Adaptive or convertible

3 254/379 (0 OR, 3 XR)
 Class 254 : IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING
 OR PULLING FORCE
 254/264 APPARATUS FOR HAULING OR HOISTING LOAD,
 INCLUDING DRIVEN DEVICE WHICH CONTACTS AND PULLS ON C

ABLE

 254/266 .Device includes rotatably driven, cable
 contacting drum
 254/375 ..Including means for preventing or retarding
 rotation of drum in at least one direction
 254/378 ...Frictional brake assembly having rotating,
 wheel structure and shiftable shoe or band
 254/379Having fluid actuator for shifting shoe or
 band

3 360/95 (0 OR, 3 XR)
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
 RETRIEVAL
 360/88 RECORD TRANSPORT WITH HEAD STATIONARY DURING
 TRANSDUCING
 360/90 .Tape record
 360/93 ..Tape in container
 360/95 ...With tape extraction

3 415/173.1 (0 OR, 3 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/170.1 BEARING, SEAL, OR LINER BETWEEN RUNNER PORTION
 AND STATIC PART
 415/173.1 .Between blade edge and static part

2 29/401.1 (1 OR, 1 XR)
 Class 029 : METAL WORKING
 29/592 METHOD OF MECHANICAL MANUFACTURE
 29/401.1 .Converting

2 29/416 (0 OR, 2 XR)
 Class 029 : METAL WORKING
 29/592 METHOD OF MECHANICAL MANUFACTURE
 29/412 .Obtaining plural product pieces from unitary

10697328_CLSTITLES

- workpiece
29/416 ..Coacting pieces
- 2 29/418 (1 OR, 1 XR)
Class 029 : METAL WORKING
29/592 METHOD OF MECHANICAL MANUFACTURE
29/418 .Providing transitory integral holding or
handling portion
- 2 29/527.5 (0 OR, 2 XR)
Class 029 : METAL WORKING
29/592 METHOD OF MECHANICAL MANUFACTURE
29/527.1 .Combined manufacture including applying or
shaping of fluent material
29/527.5 ..Metal casting
- 2 56/11.6 (0 OR, 2 XR)
Class 056 : HARVESTERS
56/10.1 MOTORIZED HARVESTER
56/10.8 .With selective control of drive means
56/11.6 ..By means for regulating tautness of belt
drive
- 2 68/23.7 (2 OR, 0 XR)
Class 068 : TEXTILES: FLUID TREATING APPARATUS
68/3R MACHINES
68/13R .Combined
68/19 ..With liquid extractor
68/23R ...Centrifugal extractor (e.g., centrifuge)
68/23.6Including impulsing means (e.g., agitator)
within and independent of centrifuge
68/23.7Oscillating type
- 2 74/411.5 (1 OR, 1 XR)
Class 074 : MACHINE ELEMENT OR MECHANISM
74/640 GEARING
74/411.5 .With brake means for gearing
- 2 82/112 (0 OR, 2 XR)
Class 082 : TURNING
82/112 PORTABLE LATHE FOR BRAKE DRUM, DISC, OR SHOE
- 2 92/63 (2 OR, 0 XR)
Class 092 : EXPANSIBLE CHAMBER DEVICES
92/61 RELATIVELY MOVABLE WORKING MEMBERS
92/62 .First working member moves second coaxial
working member through separating abutment surfaces
92/63 ..With separate biasing means for a working
member
- 2 139/452 (2 OR, 0 XR)
Class 139 : TEXTILES: WEAVING
139/116.1 WEFT MANIPULATION
139/429 .Weaving with stationary weft supply
139/450 ..Weft handling
139/452 ...Measuring or storing
- 2 160/170 (2 OR, 0 XR)
Class 160 : FLEXIBLE OR PORTABLE CLOSURE, PARTITION, OR

10697328_CLSTITLES

PANEL

- 160/130 PLURAL STRIP, SLAT, OR PANEL TYPE
 160/166.1 .Venetian blind type
 160/168.1R ..With accumulating means
 160/170 ...Drum or roller wound strand
- 2 188/2D (0 OR, 2 XR)
 Class 188 : BRAKES
 188/2R VEHICLE
 188/2D .Bowdin wire-operated
- 2 188/329 (1 OR, 1 XR)
 Class 188 : BRAKES
 188/67 ROD
 188/74 .Transversely movable
 188/78 ..Expanding
 188/325 ...Two shoes
 188/327Anchors adjacent unoperated ends
 188/328Common anchor pivot or abutment
 188/329Rotary cam abutting shoe ends
- 2 188/74 (0 OR, 2 XR)
 Class 188 : BRAKES
 188/67 ROD
 188/74 .Transversely movable
- 2 192/113.34 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/113.1 .Lubricating, insulating, or cooling
 192/113.3 ..Liquid cooled or lubricated clutch surfaces
 192/113.34 ...Lubricant or coolant between engaging surfaces
- 2 192/224.1 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/215 TRANSMISSION AND BRAKE
 192/224 .Belt or chain transmission
 192/224.1 ..Belt tensioner affects brake operation
- 2 192/70.12 (1 OR, 1 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/66.1 .Axially engaging
 192/70.11 ..Interposed, mating clutch-elements
 192/70.12 ...With means to cool or lubricate clutch parts
- 2 226/195 (0 OR, 2 XR)
 Class 226 : ADVANCING MATERIAL OF INDETERMINATE LENGTH
 226/195 WITH MEANS TO RETARD MATERIAL MOVEMENT (E.G., "TENSIONER")
- 2 242/365.4 (0 OR, 2 XR)
 Class 242 : WINDING, TENSIONING, OR GUIDING
 242/364 UNIDIRECTIONAL WINDING AND UNWINDING
 242/364.6 .Variable number of windings on support
 242/365.3 ..Stationary winding surface (e.g., with flyer)

10697328_CLSTITLES

242/365.4 ...Brake providing resistance to removal of material

2 242/559.3 (0 OR, 2 XR)
 Class 242 : WINDING, TENSIONING, OR GUIDING
 242/550 UNWINDING
 242/558 .With supply coil replenishment
 242/559 ..Supply coil transfer apparatus
 242/559.3 ...Sequential coil shifting

2 254/378 (0 OR, 2 XR)
 Class 254 : IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE
 254/264 APPARATUS FOR HAULING OR HOISTING LOAD, INCLUDING DRIVEN DEVICE WHICH CONTACTS AND PULLS ON CA

BLE

254/266 .Device includes rotatably driven, cable contacting drum
 254/375 ..Including means for preventing or retarding rotation of drum in at least one direction
 254/378 ...Frictional brake assembly having rotating, wheel structure and shiftable shoe or band

2 256/1 (0 OR, 2 XR)
 Class 256 : FENCES
 256/1 MISCELLANEOUS

2 256/2 (0 OR, 2 XR)
 Class 256 : FENCES
 256/2 BARBED

2 301/6.91 (0 OR, 2 XR)
 Class 301 : LAND VEHICLES: WHEELS AND AXLES
 301/5.1 WHEEL
 301/6.1 .With drive or brake attachment
 301/6.91 ..Having vibration damper or heat insulator

2 409/123 (0 OR, 2 XR)
 Class 409 : GEAR CUTTING, MILLING, OR PLANING
 409/64 MILLING
 409/79 .With regulation of operation by templet, card, or other replaceable information supply
 409/123 ..And provision for circumferential relative movement of cutter and work

2 415/173.4 (0 OR, 2 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/170.1 BEARING, SEAL, OR LINER BETWEEN RUNNER PORTION AND STATIC PART
 415/173.1 .Between blade edge and static part
 415/173.4 ..Erodable or permanently deformable

2 416/224 (0 OR, 2 XR)
 Class 416 : FLUID REACTION SURFACES
 416/223R SPECIFIC BLADE STRUCTURE (E.G., SHAPE, MATERIAL, ETC.)
 416/224 .Having wear liner, sheathing or insert

10697328_CLSTITLES

- 2 416/228 (0 OR, 2 XR)
 - Class 416 : FLUID REACTION SURFACES
 - 416/223R SPECIFIC BLADE STRUCTURE (E.G., SHAPE, MATERIAL, ETC.)
 - 416/228 .Tined or irregular periphery
- 2 416/241R (2 OR, 0 XR)
 - Class 416 : FLUID REACTION SURFACES
 - 416/223R SPECIFIC BLADE STRUCTURE (E.G., SHAPE, MATERIAL, ETC.)
 - 416/241R .Coating, specific composition or characteristic
- 2 623/44 (2 OR, 0 XR)
 - Class 623 : PROSTHESIS
 - 623/27 LEG
 - 623/39 .Knee
 - 623/43 ..Brake or latch
 - 623/44 ...Weight or position responsive